PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference PCT04-043	FOR FURTHER ACTION	see Form PCT/ISA/220 as well as, where applicable, item 5 below.			
International application No.					
PCT/KR2004/003284	14 DECEMBER 2004 (1	14.12.2004)	16 DECEMBER 2003 (16.12.2003)		
Applicant LG Cable Ltd. et al					
This International search report has been prep to Article 18. A copy is being transmitted to the This international search report consists of a total lt is also accompanied by a copy	he International Bureau.				
this Authority (Rule 23.	ss otherwise indicated under this was carried out on the basis of a 1(b)).	item. translation of t	of the international application in the he international application furnished to nternational application, see Box No. I.		
		sciosca in the n	incritational application, see Box 110. 1.		
 Certain claims were found un Unity of invention is lacking (
4. With regard to the title, the text is approved as submitte	•	vs:	2005. 2. 2.5		
may, within one month from the 6. With regard to the drawings. a. the figure of the drawings to be pub. as suggested by the applicate because the applicant faile	eccording to Rule 38.2(b), by this e date of mailing of this international lished with the abstract is Figure eant. d to suggest a figure. characterizes the invention.	onal search rep	appears in Box No. IV. The applicant port, submit comments to this Authority.		

CLASSIFICATION OF SUBJECT MATTER

IPC7 H05K 7/20

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 F28D 15/00 - 15/06, H05K 1/00 - 13/08

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Japanese utility models since 1974

Korean patents and utility models since 1947

Electronic data base consulted during the intertnational search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Α	JP 12-161878 A (Furukawa electric Co., Ltd) 16 Jun 2000 See the whole document	1 - 33
A	US 6097602 A (Marian, Inc.) 01 Aug 2000 See the wole document	1 - 33
A	US 2003/0129863 A1 (International Business Machines Corporation) 10 Jul 2003 See the whole document	1 - 33
P,A	US 2004/0080915 A1 (Koninklijke philips electronics N.V.) 29 Apr 2004 See the whole document	1 - 33

1	Further	documents	are listed	d in the	continuation	of Box	C.
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See patent family annex.

- Special categories of cited documents:
- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier application or patent but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other
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- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance, the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- "&" document member of the same patent family

Date of the actual completion of the international search

25 FEBRUARY 2005 (25.02.2005)

Date of mailing of the international search report

25 FEBRUARY 2005 (25.02.2005)

Name and mailing address of the ISA/KR



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INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No. PCT/KR2004/003284

Patent document cited in search report	Publication date	Patent fa member		Publication date
JP13119183	27.04.2001 JP35244	JP2001119183A2	27.04.2001	
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US06097602	JP14526 US60976 US60976 WO0020 WO2000	642A1 13.04 642AA 13.04 642AA 13.04 7425A2 25.07 425A2 25.07 425A2 25.07 626417T2 20.0 602A 01.08 602A 01.08 602A 01.08 602A 13.0 620A 13.0 620A 13.0	.2001 8.2002 2002 .2000	
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